

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Original): A method for driving an LCD in a dynamic inversion manner, comprising the steps of:

dividing a frame into a plurality of polarity blocks, each of the polarity blocks covering $2n$ horizontal scanning lines, wherein n is a positive integer;

generating an original polarity inversion pattern which has positive polarities for n pixels in each column line of each polarity block and negative polarities for the other n pixels in each column line of each polarity block;

generating a polarity inversion group having $2n$ polarity patterns which record polarity distributions obtained by rotating each row of the original polarity block under a DC balance requirement; and

selecting the polarity patterns in the polarity inversion group for driving the pixels.

Claim 2 (Original): The method for driving an LCD in a dynamic inversion manner of claim 1, wherein each polarity pattern in the polarity inversion group is obtained by sequentially rotating up the original polarity block by one row.

Claim 3 (Original): The method for driving an LCD in a dynamic inversion manner of claim 1, wherein each polarity pattern in the polarity inversion group is obtained by sequentially rotating down the original polarity block by one row.

Claim 4 (Original): The method for driving an LCD in a dynamic inversion manner of claim 1, wherein the polarity patterns in the polarity inversion group for driving the pixels are selected randomly.

Claim 5 (Original): The method for driving an LCD in a dynamic inversion manner of claim 1, wherein each of the polarity patterns appears once in one cycle.

Claim 6 (Original): A method for driving an LCD in a dynamic inversion manner, comprising the steps of:

dividing a frame into a plurality of polarity blocks, each of the polarity blocks covering $2n$ horizontal scanning lines, wherein n is a positive integer;

generating an original polarity pattern which has positive polarities for n pixels in each column line of each polarity block and negative polarities for the other n pixels in each column line of each polarity block;

generating a polarity pattern which records a polarity distribution obtained by rotating x rows of the original polarity block under a DC balance requirement, wherein x is a positive integer and not larger than $2n$; and

selecting the polarity pattern for driving the pixels.

Claim 7 (Original): The method for driving an LCD in a dynamic inversion manner of claim 6, wherein the polarity pattern for driving the pixels is obtained by rotating up the original polarity block by one row.

Claim 8 (Original): The method for driving an LCD in a dynamic inversion manner of claim 6, wherein the polarity pattern for driving the pixels is obtained by rotating down the original polarity block by one row.

Claim 9 (Original): The method for driving an LCD in a dynamic inversion manner of claim 6, wherein the polarity pattern for driving the pixels is selected randomly.